

March 2010

[KW 213]

Sub. Code: 2239

M.S. DEGREE EXAMINATION

Branch II – ORTHOPAEDIC SURGERY

**Paper IV - (for candidates admitted from 2004-2005 to 2007-08) and
Part II / Paper III – (for candidates admitted from 2008-09 onwards)
SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY
(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY,
SPINE SURGERY, ARTHROPLASTY, ARTHROSCOPY,
SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)**

Q.P. Code : 222239

Time : Three hours

Maximum : 100 marks

Answer ALL questions

Draw suitable diagram wherever necessary

I. Essay questions :

(2 x 20 = 40)

1. Describe classification and evaluation of ligamentous injuries of the knee joint. How will you manage a chronic anterior cruciate ligament rupture in an athlete?
2. Discuss etiopathology, clinical features, evaluation and management of congenital pseudoarthrosis tibia in a four year old child.

II. Write short notes on :

(10 x 6 = 60)

1. Equinus deformity.
2. Periprosthetic hip fractures.
3. Dupuytren's contracture.
4. Vacuum assisted closure of wounds.
5. Bone transportation.
6. High tibial osteotomy.
7. Surface replacement.
8. Bone scan.
9. Lumbar disc prosthesis.
10. Cementless hip prosthesis.

M.S. DEGREE EXAMINATION

Branch II – Orthopaedic Surgery

**SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY
(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY,
SPINE SURGERY, ARTHROPLASTY, ARTHROSCOPY, SPORTS
MEDICINE AND ORTHOPAEDIC ONCOLOGY)**

**Paper IV - (for candidates admitted from 2004-2005 to 2007-08) and
Part II - Paper III – (for candidates admitted from 2008-09 onwards)**

Q.P. Code : 222239

Time : Three hours

Maximum : 100 marks

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essay questions :

(2 X 20 = 40)

1. Discuss etiopathology, clinical features and management of compartment syndrome of forearm.
2. Describe anatomy of lumbar intervertebral disc. How will you evaluate and manage lumbar disc lesion in a 30 year old patient.

II. Write short notes on :

(10 X 6 = 60)

1. Tendo Achilles Rupture.
2. Ankle Foot Orthosis.
3. Patellar tendon bearing prosthesis.
4. Bone scan.
5. Swan neck deformity of fingers.
6. Frozen shoulder.
7. Complications of arthroscopy of knee.
8. Phantom limb.
9. Congenital vertical talus.
10. Osteogenesis imperfecta.

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

**SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY
(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY,
SPINE SURGERY, ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE
AND ORTHOPAEDIC ONCOLOGY)**

Q.P. Code : 222239

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|--|----|----|----|
| 1. How will you proceed with a young man with Recurrent dislocation of Shoulder and options for management. | 11 | 35 | 15 |
| 2. Describe the anatomy and radiologic features of Spondylolysis of L ₅ and discuss its management. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|---|---|----|---|
| 1. Shoulder Impingement Syndrome. | 4 | 10 | 7 |
| 2. Knee ankle foot orthosis. | 4 | 10 | 7 |
| 3. Hip arthroscopy. | 4 | 10 | 7 |
| 4. Medical management of Osteoporosis. | 4 | 10 | 7 |
| 5. Spondylo epiphyseal dysplasia. | 4 | 10 | 7 |
| 6. Mucopolysacharidosis. | 4 | 10 | 7 |
| 7. Button hole deformity. | 4 | 10 | 7 |
| 8. Retrocalcaneal bursitis. | 4 | 10 | 7 |
| 9. Transverse fracture Acetabulum. | 4 | 10 | 7 |
| 10. Mega custom prosthesis of lower limb. | 4 | 10 | 7 |

October 2011

[KZ 213]

Sub. Code: 2239

M.S. DEGREE EXAMINATION
BRANCH II – ORTHOPAEDIC SURGERY
SUB SPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY
(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY,
SPINE SURGERY, ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE
AND ORTHOPAEDIC ONCOLOGY)

Q.P. Code : 222239

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages	Time	Marks
	(Max.)	(Max.)	(Max.)
1. Differential diagnosis of low back pain in a young Individual. Management of lumbar disc prolapse at L5 S1 level.	11	35	15
2. Deformities around the knee in children and its management.	11	35	15

II. Write notes on :

1. Tumor necrosis.	4	10	7
2. Flexor tendon injury zone II.	4	10	7
3. Total elbow prosthesis.	4	10	7
4. Cervico occipital fusion.	4	10	7
5. Thenar muscles.	4	10	7
6. Portals in knee arthroscopy.	4	10	7
7. Relapsed CTEV.	4	10	7
8. Coronoid fracture management.	4	10	7
9. Ankle arthroplasty.	4	10	7
10. Aneurysmal bone cyst.	4	10	7

APRIL 2012

[LA 213]

Sub. Code: 2239

**M.S. DEGREE EXAMINATION
BRANCH II – ORTHOPAEDIC SURGERY**

**SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY
(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY,
SPINE SURGERY, ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE
AND ORTHOPAEDIC ONCOLOGY)**

Q.P. Code : 222239

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Discuss the diagnosis and management of infected Total Knee Replacement.	16	35	15
2. Discuss the Diagnosis and management of Developmental Dysplasia of Hip from newborn upto 2 years.	16	35	15

II. Write notes on :

1. Describe the clinical features and diagnosis of Spondylolysis and write a note on Pars repair.	4	10	7
2. Soft tissue release in valgus knee during Total Knee Replacement.	4	10	7
3. Discuss Sprengel shoulder.	4	10	7
4. Describe the etiology in recurrent dislocation of shoulder and elaborate on Bankart's repair.	4	10	7
5. What is Spinal shock and discuss the emergency management of spinal cord injury patient.	4	10	7
6. What is Caffey's disease and write about its management.	4	10	7
7. Discuss in detail about Diaphyseal aclasis and exostosis.	4	10	7
8. Management of bone defect in Total Knee Replacement.	4	10	7
9. Rehabilitation of a paraplegic patient.	4	10	7
10. Etio pathology and management of Swan neck deformity	4	10	7

M.S. DEGREE EXAMINATION
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SPINE SURGERY, ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE
AND ORTHOPAEDIC ONCOLOGY)

Q.P. Code : 222239

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 15 = 30)

1. Classification of Bone Tumors and Staging of Bone Tumors.
Management of Osteo Clastoma of Proximal Tibia in a 30 year old Patient.
2. Etiopathology of congenital Talipes Equino Varus and Management.

II. Write notes on:

(10 x 7 = 70)

1. Aneurysmal Bone Cyst.
2. Below Knee Prosthesis.
3. Chondroblastoma.
4. Biopsy in Malignant Bone Tumors.
5. Myelo Meningocele.
6. Heterotrophic Ossification.
7. Ultra Sound Therapy.
8. Walking Stick.
9. Tuberculous Dactylitis.
10. Triple Arthrodesis.

M.S. DEGREE EXAMINATION
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SPINE SURGERY, ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE
AND ORTHOPAEDIC ONCOLOGY)

Q.P. Code : 222239

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on: **(2 x 15 = 30)**

1. Define and classify scoliosis. Discuss the pathological changes, physical examination and radiological examination of structural scoliosis. How will you treat a case of adolescent idiopathic dorsolumbar scoliosis in a 13 year old girl?
2. Classify Physeal fractures. Discuss the biomechanics, diagnosis and management of Monteggia fracture dislocation in a 10 year old boy.

II. Write notes on: **(10 x 7 = 70)**

1. Arthrogyrosis multiplex congenita.
2. Boutonniere deformity.
3. Surgical options in osteoporotic spine.
4. Management of avulsion of tibial tuberosity in total knee replacement.
5. Hip replacement for developmental dysplasia of hip.
6. Arthroscopic procedures used in osteoarthritis knee.
7. Athletic injuries in elbow.
8. Eosiniphilic granuloma.
9. Osteoidosteoma and osteoblastoma .
10. Immuno oncology.

(LE 213)

APRIL 2014

Sub. Code:2239

**M.S. DEGREE EXAMINATION
BRANCH II – ORTHOPAEDIC SURGERY**

**SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY
(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY, SPINE
SURGERY, ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND
ORTHOPAEDIC ONCOLOGY)**

Q.P.Code: 22239

Time: Three Hours

Maximum: 100 marks

I. Elaborate on: (2X15=30)

1. Discuss in detail on knee instability. Elaborate on anterior cruciate ligament reconstruction techniques.
2. Discuss the diagnosis and management of osteoclastoma of distal femur.

II. Write notes on: (10X7=70)

1. Management of fracture scaphoid non union with avascular necrosis of proximal fragment.
2. Vertebroplasty – operative technique.
3. Preoperative planning for total hip replacement in unilateral chronic arthritis.
4. Total knee replacement in rheumatoid arthritis.
5. Painful non union.
6. Hip spica.
7. Surgical management of spondylolysis.
8. CT guided biopsy.
9. Acute patellar dislocation – recent concepts.
10. Trigger finger – surgical release.

(LF 213)

OCTOBER 2014

Sub. Code:2239

**M.S. DEGREE EXAMINATION
BRANCH II – ORTHOPAEDIC SURGERY**

**PAPER IV - SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY
(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY, SPINE
SURGERY, ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND
ORTHOPAEDIC ONCOLOGY)**

Q.P.Code: 222239

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the clinical features, differential diagnosis and management of Congenital Vertical Talus
2. Discuss the clinical features differential Diagnosis and management of Ewing's tumour.

II. Write notes on:

(10 x 7 = 70)

1. Skeletal metastasis.
2. Ceramics in arthroplasty.
3. Caplan's dislocation.
4. Villo nodular synovitis.
5. Bankart's repair.
6. Stem cell.
7. Neglected Acromio clavicular dislocation.
8. Tennis elbow.
9. Management of osteoid osteoma.
10. Balloon kyphoplasty.

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

PAPER I – SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY

**(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY,
SPINE SURGERY, ARTHROPLASTY, ARTHROSCOPY,
SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)**

Q.P. Code : 222239

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on: **(2 x 15 = 30)**

1. Preoperative planning in TKR and discuss about TKR in valgus knee.
2. Classify cervical spine injuries and discuss the management of acute cervical spine injury.

II. Write notes on: **(10 x 7 = 70)**

1. Management of ankylosed hip in THR.
2. Management of Non union Tibia.
3. MCL injury in TKR.
4. Shoulder arthroscopy.
5. Discoid meniscus.
6. Tom smith's arthritis.
7. SCIWORA.
8. Management of cartilage defect.
9. Plantar fasciitis.
10. Unicameral bone cyst.

[LH 213]

OCTOBER 2015

Sub. Code: 2239

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

PAPER IV – SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY

(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY,

SPINE SURGERY, ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE

AND ORTHOPAEDIC ONCOLOGY)

Q.P. Code : 222239

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Describe the classification of epiphyseal injuries and its complications.
How will you manage a case of compound Type IV epiphyseal injury of distal femur in a 12 year old boy?
2. What are the principles of tendon transfers?
How will you manage a case of Ulnar claw hand?

II. Write notes on:

(10 x 7 = 70)

1. Ewings sarcoma.
2. Tom smith's Arthritis.
3. Evaluation of rotational malalignment in lower limb.
4. Cryosurgery.
5. Arthroscopic assisted internal fixation of bone.
6. Lumbar canal stenosis.
7. Rehabilitation of ACL reconstructed knee.
8. Unicondylar knee replacement surgery.
9. PTB brace.
10. Daycare surgical procedures in orthopaedics.

**M.S. DEGREE EXAMINATION
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(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY, SPINE SURGERY,
ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)

Q.P.Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Evaluation of infected TKR (Total Knee Replacement) and discuss its management.
2. Elaborate on Clinical examination, diagnosis, investigation and management of PCL (Posterior Cruciate Ligament) tear.

II. Write notes on:

(10 x 7 = 70)

1. Rotator cuff tear.
2. Resurfacing hip arthroplasty.
3. GCT (Giant Cell Tumour) distal radius.
4. PET scan.
5. Spondyloptosis.
6. Endoscopic discectomy and micro discectomy.
7. Chondromalacia patella.
8. Hip arthroscopy.
9. Management of acetabular bone defect in THR.
10. Aseptic loosening.

**M.S. DEGREE EXAMINATION
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(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY, SPINE SURGERY,
ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)

Q.P.Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe aetiopathogenesis, diagnosis of Developmental Dislocation of Hip.
How will you manage a case of CROWE type II DDH in a 40 yrs old patient?
2. How will you evaluate a case of post traumatic internal derangement
of knee (IDK) Joint?
Give an outline of management of chronic symptomatic meniscal injured
knee joint.

II. Write notes on:

(10 x 7 = 70)

1. Neurological monitoring in spinal surgery.
2. Torticollis.
3. Pes cavus.
4. Dupuytren's contracture.
5. TAR syndrome.
6. Spinal metastasis.
7. Tumor necrosis factor.
8. Histiocytosis x.
9. Management of infected TKR.
10. Rehabilitation in Rotatorcuff injuries.

**M.S. DEGREE EXAMINATION
BRANCH II – ORTHOPAEDIC SURGERY**

PAPER IV – SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY

(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY, SPINE SURGERY,
ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)

Q.P.Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. What are the different patterns of lytic lesions of bone?
How will you manage a case of Stage II A osteo sarcoma of distal femur in 22 yrs old male patient.
2. Describe the aetiopathogenesis, classification, diagnosis of spondylolisthesis?
How will you manage a case of Gr III spondylolisthesis of L4 - L5 with cauda equina lesion?

II. Write notes on:

(10 x 7 = 70)

1. Slipped capital femoral epiphysis.
2. Staging of malignant bone tumors.
3. Madelung deformity.
4. Mallet finger.
5. Scheuerman's disease.
6. Oochranosis.
7. Fixation devices in cruciate ligament reconstruction.
8. MPFL injuries.
9. Role of Arthroplasty in proximal humerus fractures.
10. Myoelectric prosthesis.

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

PAPER IV – SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY

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Q.P.Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Draw diagram(s) of anatomical and mechanical axis of lower limb and briefly discuss the biomechanical principles of total knee replacement and post op TKR rehabilitation.
2. Allograft – Definition, types, principles of preparation, advantages and disadvantages.

II. Write notes on:

(10 x 7 = 70)

1. Osteosarcoma.
2. Bone scan in musculoskeletal disorder.
3. Role of orthosis in treatment of clubfoot.
4. Interferential Therapy (IFT).
5. SOMI brace.
6. Role of ultrasound in fracture healing.
7. Role of Pamidronate in bone metastasis.
8. Ceramic vs Metal bearing surface.
9. Kyphoplasty.
10. Floor reaction Orthosis.

[LM 213]

MAY 2018

Sub. Code: 2239

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

PAPER IV – SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY

(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY, SPINE SURGERY,
ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)

Q.P.Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Role of minimum invasive techniques in orthopaedics and portals of knee arthroscopy and the role of arthroscopy in the management of intra articular fractures.
2. Biomechanics of total hip arthroplasty. Common surgical factors affecting the early outcome of total hip arthroplasty. Recent advances in the field of total hip arthroplasty and post operative total hip arthroplasty rehabilitation.

II. Write notes on:

(10 x 7 = 70)

1. Reverse shoulder arthroplasty.
2. Sach foot and Jaipur foot.
3. Brown's Tumour.
4. Autologous chondrocyte implantation.
5. Bone cement.
6. PET Scan in Orthopaedic practice.
7. Laser therapy.
8. Suture anchor.
9. Myoelectric prosthesis.
10. Bone morphogenetic protein.

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

PAPER IV – SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY

(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY, SPINE SURGERY, ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)

Q.P. Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe aetiopathogenesis, diagnosis of Developmental dislocation of Hip. How will you manage a case of CROWE type II DDH in a 40 yrs old patient?
2. How will you evaluate a case of post traumatic internal derangement of knee (IDK) joint. Give an outline of management of chronic symptomatic meniscal injured knee joint.

II. Write notes on:

(10 x 7 = 70)

1. Neurological monitoring in spinal surgery.
2. Torticollis.
3. Pes cavus.
4. Dupuytren's contracture.
5. TAR syndrome.
6. Spinal metastasis.
7. Tumor necrosis factor.
8. Histiocytosis x.
9. Management of infected TKR.
10. Rehabilitation in Rotatorcuff injuries.

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

PAPER IV – SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY

(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY, SPINE SURGERY, ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)

Q.P. Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Evaluate Instability of lumbar spine. How should a lumbosacral instability be investigated and managed?
2. Anterior shoulder joint instability. Clinical evaluation, investigations and arthroscopic management.

II. Write notes on:

(10 x 7 = 70)

1. Limb salvage in orthopaedic oncology.
2. Vertebroplasty.
3. Ankle arthroplasty.
4. Safe dislocation of hip.
5. Far lateral disc herniation.
6. Scheller mann's Disease.
7. SACH Foot.
8. Ultrasonic therapy.
9. Management of chronic Achilles tendon rupture.
10. Unicdylar knee replacement.

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

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ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)

Q.P. Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Enumerate Arthroscopy instruments. Discuss the techniques of Arthroscopic ACL reconstruction.
2. Enumerate adolescent hip diseases. Clinical features, classification, management of Perthe's disease.

II. Write notes on:

(10 x 7 = 70)

1. Degenerative spondylolisthesis.
2. Dupuytren's contracture.
3. Periprosthetic joint infection.
4. PCL- retention v/s substitution in TKR.
5. Vertebroplasty.
6. Lumbar canal stenosis.
7. Aneurysmal bone cyst.
8. Limb salvage surgery.
9. Bone patellar tendon bone graft.
10. Management of scaphoid non-union.

[LQ 213]

AUGUST 2020
(MAY 2020 SESSION)

Sub. Code: 2239

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

PAPER IV – SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY

(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY, SPINE SURGERY,
ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)

Q.P. Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss etiopathology, clinical features and management of 'Club foot'.
2. Describe in brief the various complications of Total Hip Arthroplasty (THA).
How will you manage aseptic loosening of components in a 65 year old patient with cemented THA?

II. Write notes on:

(10 x 7 = 70)

1. Lumbar disc prosthesis
2. Spondylolisthesis
3. Retrocalcaneal bursitis
4. Hip Arthroscopy
5. Flexor tendon injury zone II
6. Sprengel shoulder
7. Chondroblastoma
8. Immuno oncology
9. CT guided biopsy
10. Jaipur foot

[LS 213]

NOVEMBER 2020
(OCTOBER 2020 SESSION)
M.S. DEGREE EXAMINATION

Sub. Code: 2239

BRANCH II – ORTHOPAEDIC SURGERY

PAPER IV – SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY

(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY, SPINE SURGERY,
ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)

Q.P. Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the anatomy of brachial plexus. Discuss the clinical features and management of radial nerve palsy.
2. Preoperative planning in TKR and discuss about TKR in valgus knee.

II. Write notes on:

(10 x 7 = 70)

1. SCIWORA
2. Cryosurgery
3. FCB
4. TAR syndrome
5. Bone bank
6. Ewing's sarcoma
7. Vitamin D resistant rickets
8. Meniscal injuries of knee joint
9. Rehabilitation in rotatorcuff injuries
10. Kyphoplasty

[MS 0721]

JULY 2021

Sub. Code: 2239

(MAY 2021 SESSION)

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

PAPER IV – SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY

(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY, SPINE SURGERY,
ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)

Q.P. Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Acute ligament injuries of ankle, evaluation, imaging and treatment.
2. Describe gait cycle – abnormal gait patterns in orthopaedics. How will you manage quadriceps gait?

II. Write notes on:

(10 x 7 = 70)

1. Radio frequency ablation in orthopaedics.
2. Therapeutic embolisation.
3. Sir John Charnley.
4. Posterior lumbar inter body fusion.
5. Orthopaedic portals in knee arthroplasty.
6. Modified Jhones tendon transfer.
7. TLIF.
8. Spina ventosa.
9. Triple arthrodesis.
10. Extended trochanteric osteotomy.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD 1121]

NOVEMBER 2021
(OCTOBER 2021 SESSION)
M.S. DEGREE EXAMINATION

Sub. Code: 2239

BRANCH II – ORTHOPAEDIC SURGERY

PAPER IV – SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY

(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY, SPINE SURGERY,
ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)

Q.P. Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Classification of Meniscal Tears and types of Meniscal Excisions. Describe about Bucket Handle Tear and its management.
2. Spondylosisthesis – Classification, Clinical Findings, Radiological Evaluation and Treatment.

II. Write notes on:

(10 x 7 = 70)

1. Peroneal Tendon Subluxation and Dislocation.
2. Osteochondritis of Talus.
3. Lisfranc Injury.
4. Subtalar Subluxation.
5. Burst Fracture and Management.
6. Non-Union of Long Bones and recent methods to Promote Healing.
7. Bone Regenerate.
8. Anatomical and mechanical axes of Femur and Tibia.
9. Kaplan's Dislocation.
10. Percutaneous Lumbar Discectomy.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MS 0522]

MAY 2022

Sub. Code: 2239

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

PAPER IV – SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY

(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY, SPINE SURGERY, ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)

Q.P. Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Define and Classify Scoliosis. Discuss the pathological changes, physical examination and radiological examination of Structural Scoliosis. How will you treat a case of Adolescent Idiopathic Dorsolumbar Scoliosis in a 13-year-old girl?
2. Differentiate between Parosteal and Periosteal Osteosarcoma in terms of Pathology, Clinical Features, Treatment and Prognosis.

II. Write notes on:

(10 x 7 = 70)

1. Periprosthetic Hip Fractures.
2. Congenital Vertical Talus.
3. Portals in Knee Arthroscopy.
4. Unicameral Bone Cyst.
5. Interferential Therapy (IFT).
6. Quadriceps Contracture of Infancy and Childhood.
7. Reverse Shoulder Arthroplasty.
8. Ulnar paradox.
9. Painful stiff knee after Total Knee Replacement (TKR).
10. What are the functions of hand? What is the functional position of hand?

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MS 1022]

OCTOBER 2022

Sub. Code: 2239

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

PAPER IV – SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY

(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY, SPINE SURGERY, ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)

Q.P. Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss in detail on Knee Instability. Elaborate on Anterior Cruciate Ligament reconstruction techniques.
2. Discuss the aetiology, pathological anatomy, clinical and radiological features and management of Developmental Dysplasia of Hip (DDH).

II. Write notes on:

(10 x 7 = 70)

1. Rehabilitation of a Paraplegic Patient.
2. Skeletal metastasis and its management.
3. Tom smith's arthritis.
4. Neurological monitoring in Spinal Surgery.
5. Role of Arthroplasty in Proximal Humerus Fractures.
6. Unicompartmental Knee Arthroplasty.
7. Rotationplasty.
8. Management of Claw Hand Intrinsic Minus in a patient suffering from leprosy.
9. Targeted Muscle Reinnervation (TMR).
10. Madras Foot.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MS 0723]

JULY 2023

Sub. Code: 2239

(MAY 2023 EXAM SESSION)

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

PAPER IV – SUBSPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY

(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY, SPINE SURGERY, ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE AND ORTHOPAEDIC ONCOLOGY)

Q.P. Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Classify spinal scoliosis with diagrams. What are the clinical and radiological pre-disposers for causing deformity in a scoliotic spine? How is the progress of spinal scoliosis assessed?
2. Describe the Clinical features, Radiology, Classification and Management of Proximal Femoral Focal Deficiency.

II. Write notes on:

(10 x 7 = 70)

1. Internal Bone Transport.
2. Osteochondral Autograft Transfer System.
3. Basic points of Intraoperative Navigation.
4. Epicondylar knee replacement.
5. Magnetic cell delivery in musculoskeletal regeneration.
6. Hartshill's rectangle.
7. Over the top position.
8. Discography.
9. Sandblasting - Surface Treatment.
10. Notchplasty.

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MS 1223]

DECEMBER 2023

Sub. Code: 2239

(OCTOBER 2023 EXAM SESSION)

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

**PAPER IV – SUB-SPECIALITIES IN ORTHOPAEDICS AND TRAUMATOLOGY
(INCLUDES PAEDIATRIC ORTHOPAEDICS, HAND SURGERY,
SPINE SURGERY, ARTHROPLASTY, ARTHROSCOPY, SPORTS MEDICINE
AND ORTHOPAEDIC ONCOLOGY)**

Q.P. Code: 222239

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe the structure and functions of peripheral nerve, the pathology classification and electro diagnosis of peripheral nerve injury. Explain the principles of management of radial nerve injury at different levels.
2. Discuss the indications and various types of amputations. Describe the technique of ideal amputation stump. Elaborate on recent advances in upper limb prosthesis in children and adult.

II. Write notes on:

(10 x 7 = 70)

1. Oncogenic Osteomalacia.
2. Management of Paget's disease.
3. Investigations in osteosarcoma.
4. Common gait abnormalities in spastic hemiplegic.
5. Tests for isolated weakness of rotator cuff muscles.
6. Arthroscopy in OCD ankle (Osteochondritis Dissican's).
7. Spinal canal stenosis.
8. Management of dislocation after THA.
9. Free muscle transplant.
10. Rapidly Destructive Arthropathy.
